

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	(super\$1resolution or super adj resolution) near2 grid with (sub\$1pixel or sub adj pixel)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:29
L2	1	((super\$1resolution or super adj resolution) near2 grid with (sub\$1pixel or sub adj pixel)).clm.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:28
L3	1	((sub\$1pixel or sub adj pixel) with effective adj response).clm.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:29
L4	9	"358".clas. and SRE	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L5	167	(donut or doughnut) near4 filter	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L6	5	((super adj resolution) or super\$1resolution) same (donut or doughnut)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L7	28	mcelvain-j\$.in.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L8	34	((super adj resolution) or super\$1resolution) and (donut or doughnut)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L9	7	donut adj filter	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L10	1	((super adj resolution) or super\$1resolution) and (donut or doughnut) near4 filter	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L11	35	hains-c\$.in.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L12	0	hains-c.in.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L13	2638	(super adj resolution) or super\$1resolution	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L14	107	halfon\$.ab. and addressability	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L15	6	((super adj resolution) or super\$1resolution) near grid	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31

## EAST Search History

L16	22	halfon\$.ab. and addressability same (sub\$1pixel or sub adj pixel or subpixel)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L17	4776	(dither or threshold) near (matrix or array)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L18	692	halfon\$.ab. and (dither or threshold) near (matrix or array)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L19	136	halfon\$.ab. and (dither or threshold) near (matrix or array).ab.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L20	64	halfon\$.ab. and dither near (matrix or array).ab.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L21	6410	(358/1.9,3.07,3.13-3.19,3.22,466,535).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/26 10:31
L22	492	(382/270).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/26 10:31
L23	6750	L21 or L22	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L24	23	L23 and (sub adj pixel or subpixel or sub\$1pixel) near\$4 (addressabl\$4 or addressabl\$4)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L25	0	EP0293214	EPO	AND	ON	2007/11/26 10:31
L26	0	EP "0293214"	EPO	AND	ON	2007/11/26 10:31
L27	1	"5673121".pn.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L28	0	EP "0293214" A3	EPO	AND	ON	2007/11/26 10:31
L29	0	EP "0" "293214" A3	EPO	AND	ON	2007/11/26 10:31
L30	0	"293214" A3	EPO	AND	ON	2007/11/26 10:31
L31	0	"293" "214" A3	EPO	AND	ON	2007/11/26 10:31
L32	0	EP00293214	EPO	AND	ON	2007/11/26 10:31
L33	0	EP000293214	EPO	AND	ON	2007/11/26 10:31
L34	0	ulichney-r.in.	EPO	AND	ON	2007/11/26 10:31
L35	5	ulichney.in.	EPO	AND	ON	2007/11/26 10:31

## EAST Search History

L36	40	ulichney-r\$.in.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L37	187	L23 and (sub adj pixel or sub\$1pixel)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L38	21	("4124870"   "4150400"   "4258393"   "4782398"   "4868684"   "5050000"   "5172132").PN. OR ("5486927").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/11/26 10:31
L39	5	L23 and (superresolution or super adj resolution or super\$1resolution)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L40	291	("358" or "382" or "345").clas.(superresolution or super adj resolution or super\$1resolution)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L41	291	("358" or "382" or "345").clas. and (superresolution or super adj resolution or super\$1resolution)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L42	2638	(superresolution or super adj resolution or super\$1resolution)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L43	104	("358" or "382" or "345").clas. and (superresolution or super adj resolution or super\$1resolution) and (subpixel or sub\$1pixel or sub adj pixel)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L44	15	(superresolution or super adj resolution or super\$1resolution) and (dither or threshold) near2 (matrix or array)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L45	130	(dither or threshold) near2 (matrix or array or pattern) same interpolat\$3	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L46	91	(dither or threshold) near2 (matrix or array) same interpolat\$3	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L47	43	L23 and (dither or threshold) near2 (matrix or array or pattern) same interpolat\$3	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L48	1	assymetr\$10 with (dither or threshold) near2 (matrix or array or pattern)	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L49	1	"5020411".pn.	US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L50	27	("4149194"   "4185304"   "5184226"   "5200831"   "5327262"   "5357344"   "5394252"   "5410414"   "5504462"   "5537223"   "5587772"   "5638107"   "5673121"   "5734752"   "5742703"   "5805734").PN. OR ("6252675").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/11/26 10:31

## EAST Search History

L51	1	10/182373		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L52	492	(382/270).CCLS.		US-PGPUB; USPAT	OR	OFF	2007/11/26 10:31
L53	6410	(358/1.9,3.07,3.13-3.19,3.22,466,535).CCLS.		US-PGPUB; USPAT	OR	OFF	2007/11/26 10:31
L54	6750	L53 or L52		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L55	203	L54 and (dither or threshold) near2 (matrix or array or pattern) with \$resolution		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L56	352	L54 and (dither or threshold) near2 (matrix or array or pattern) same \$resolution		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L57	50	("4339774"   "4651228"   "4654721"   "4733230"   "4956638").PN. OR ("5031050").URPN.		US-PGPUB; USPAT; USOCR	AND	ON	2007/11/26 10:31
L58	1	"5742703".pn.		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L59	38	("5742703").URPN.		USPAT	AND	ON	2007/11/26 10:31
L60	2	volcano near4 filter		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L61	3	"358".clas: and volcano		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L62	45	"5742703"		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L63	57	("4437122"   "4544264"   "4841375"   "4847641"   "4996603"   "5001576"   "5005139"   "5072291"   "5101438"   "5134495"   "5138339"   "5150311"   "5153925"   "5206741"   "5270836"   "5282057"   "5301037"   "5359423"   "5485289").PN. OR ("5742703").URPN.		US-PGPUB; USPAT; USOCR	AND	ON	2007/11/26 10:31
L64	0	"5742703.pn"		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31
L65	50	(dither or threshold) near2 (matrix or array or pattern) with FM		US-PGPUB; USPAT	AND	ON	2007/11/26 10:31

## EAST Search History

L66	6	dither near (grid or matrix) with (sub adj pixel or sub?pixel or sub\$1pixel)	US-PGPUB; USPAT	OR	OFF	2007/11/26 10:31
L67	4	dither near (grid or matrix) with (sub adj pixel or sub?pixel or sub\$1pixel)	USPAT; EPO	OR	OFF	2007/11/26 10:31
L68	36	ulichney-r\$.in.	USPAT; EPO	OR	OFF	2007/11/26 10:31
L69	10	"0293214"	USPAT; EPO	OR	OFF	2007/11/26 10:31
L70	0	EP near "0293214"	USPAT; EPO	OR	OFF	2007/11/26 10:31
L71	3565781	EP "0293214"	USPAT; EPO	OR	OFF	2007/11/26 10:31
L72	0	EP000293214	USPAT; EPO	OR	OFF	2007/11/26 10:31
L73	0	EP00293214	USPAT; EPO	OR	OFF	2007/11/26 10:31
L74	0	EP0293214	USPAT; EPO	OR	OFF	2007/11/26 10:31
L75	1	"6172773".pn.	USPAT	OR	OFF	2007/11/26 10:31
L76	1	"4814886".pn.	USPAT	OR	OFF	2007/11/26 10:31
L77	1	"5317418".pn.	USPAT; EPO	OR	OFF	2007/11/26 10:31
L78	1	"6335989".pn.	USPAT	OR	OFF	2007/11/26 10:31
S1	2430	(super adj resolution) or super\$1resolution	US-PGPUB; USPAT	AND	ON	2007/04/26 13:29
S2	6	((super adj resolution) or super\$1resolution) near grid	US-PGPUB; USPAT	AND	ON	2007/04/26 13:31
S3	5	((super adj resolution) or super\$1resolution) same (donut or doughnut)	US-PGPUB; USPAT	AND	ON	2007/04/26 13:31
S4	31	((super adj resolution) or super\$1resolution) and (donut or doughnut)	US-PGPUB; USPAT	AND	ON	2007/04/26 13:31

## EAST Search History

S5	1	((super adj resolution) or super\$1resolution) and (donut or doughnut) near4 filter	US-PGPUB; USPAT	AND	ON	2007/04/26 13:32
S6	160	(donut or doughnut) near4 filter	US-PGPUB; USPAT	AND	ON	2007/04/26 13:36
S7	7	donut adj filter	US-PGPUB; USPAT	AND	ON	2007/04/26 15:51
S8	8	"358".clas. and SRE	US-PGPUB; USPAT	AND	ON	2007/11/26 10:27
S9	21	mcelvain-j\$.in.	US-PGPUB; USPAT	AND	ON	2007/04/26 15:55
S10	0	hains-c.in.	US-PGPUB; USPAT	AND	ON	2007/04/26 15:55
S11	29	hains-c\$.in.	US-PGPUB; USPAT	AND	ON	2007/04/26 15:59
S12	103	halfon\$.ab. and addressability	US-PGPUB; USPAT	AND	ON	2007/04/26 16:00
S13	22	halfon\$.ab. and addressability same (sub\$1pixel or sub adj pixel or subpixel)	US-PGPUB; USPAT	AND	ON	2007/04/26 16:37
S14	4381	(dither or threshold) near (matrix or array)	US-PGPUB; USPAT	AND	ON	2007/04/26 16:37
S15	657	halfon\$.ab. and (dither or threshold) near (matrix or array)	US-PGPUB; USPAT	AND	ON	2007/04/26 16:37
S16	132	halfon\$.ab. and (dither or threshold) near (matrix or array).ab.	US-PGPUB; USPAT	AND	ON	2007/04/26 16:39
S17	62	halfon\$.ab. and dither near (matrix or array).ab.	US-PGPUB; USPAT	AND	ON	2007/04/27 10:57
S18	5878	(358/1.9,3.07,3.13-3.19,3.22,466,535).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/04/27 10:58
S19	480	(382/270).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/04/27 10:58
S20	6211	S18 or S19	US-PGPUB; USPAT	AND	ON	2007/04/27 10:58

## EAST Search History

S21	167	S20 and (sub adj pixel or subpixel or sub\$1pixel)	US-PGPUB; USPAT	AND	ON	2007/04/27 16:53
S22	23	S20 and (sub adj pixel or subpixel or sub\$1pixel) near4 (addressabl\$4 or addressabl\$4)	US-PGPUB; USPAT	AND	ON	2007/04/27 14:00
S23	1	"5673121".pn.	US-PGPUB; USPAT	AND	ON	2007/04/27 15:40
S24	0	EP "0293214" A3	EPO	AND	ON	2007/04/27 15:41
S25	0	EP "0" "293214" A3	EPO	AND	ON	2007/04/27 15:40
S26	0	"293214" A3	EPO	AND	ON	2007/04/27 15:40
S27	0	"293" "214" A3	EPO	AND	ON	2007/04/27 15:40
S28	0	EP0293214	EPO	AND	ON	2007/04/27 15:41
S29	0	EP "0293214"	EPO	AND	ON	2007/04/27 15:41
S30	0	EP00293214	EPO	AND	ON	2007/04/27 15:41
S31	0	EP000293214	EPO	AND	ON	2007/04/27 15:42
S32	0	ulichney-r.in.	EPO	AND	ON	2007/04/27 15:42
S33	5	ulichney.in.	EPO	AND	ON	2007/04/27 15:43
S34	39	ulichney-r\$.in.	US-PGPUB; USPAT	AND	ON	2007/04/27 15:43
S35	20	("4124870"   "4150400"   "4258393"   "4782398"   "4868684"   "5050000"   "5172132").PN. OR ("5486927").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/04/27 16:45
S36	4	S20 and (superresolution or super adj resolution or super\$1resolution)	US-PGPUB; USPAT	AND	ON	2007/04/27 17:08
S37	2430	(superresolution or super adj resolution or super\$1resolution)	US-PGPUB; USPAT	AND	ON	2007/04/27 17:08
S38	250	("358" or "382" or "345").clas.(superresolution or super adj resolution or super\$1resolution)	US-PGPUB; USPAT	AND	ON	2007/04/27 17:09
S39	250	("358" or "382" or "345").clas. and (superresolution or super adj resolution or super\$1resolution)	US-PGPUB; USPAT	AND	ON	2007/04/27 17:09

## EAST Search History

S40	89	("358" or "382" or "345").clas. and (superresolution or super adj resolution or super\$1resolution) and (subpixel or sub\$1pixel or sub adj pixel)	US-PGPUB; USPAT	AND	ON	2007/04/27 17:17
S41	14	(superresolution or super adj resolution or super\$1resolution) and (dither or threshold) near2 (matrix or array)	US-PGPUB; USPAT	AND	ON	2007/04/27 17:21
S42	83	(dither or threshold) near2 (matrix or array) same interpolat\$3	US-PGPUB; USPAT	AND	ON	2007/04/27 17:23
S43	118	(dither or threshold) near2 (matrix or array or pattern) same interpolat\$3	US-PGPUB; USPAT	AND	ON	2007/04/27 17:23
S44	39	S20 and (dither or threshold) near2 (matrix or array or pattern) same interpolat\$3	US-PGPUB; USPAT	AND	ON	2007/05/08 09:58
S45	1	assymetr\$10 with (dither or threshold) near2 (matrix or array or pattern)	US-PGPUB; USPAT	AND	ON	2007/04/27 17:37
S46	1	"5020411".pn.	US-PGPUB; USPAT	AND	ON	2007/04/30 13:30
S47	1	10/182373	US-PGPUB; USPAT	AND	ON	2007/04/30 13:31
S48	26	("4149194"   "4185304"   "5184226"   "5200831"   "5327262"   "5357344"   "5394252"   "5410414"   "5504462"   "5537223"   "5587772"   "5638107"   "5673121"   "5734752"   "5742703"   "5805734").PN. OR ("6252675").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/04/30 14:43
S49	5902	(358/1.9,3.07,3.13-3.19,3.22,466,535).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/05/08 09:58
S50	480	(382/270).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/05/08 09:58
S51	6235	S49 or S50	US-PGPUB; USPAT	AND	ON	2007/05/08 09:58
S52	331	S51 and (dither or threshold) near2 (matrix or array or pattern) same \$resolution	US-PGPUB; USPAT	AND	ON	2007/05/08 09:59
S53	190	S51 and (dither or threshold) near2 (matrix or array or pattern) with \$resolution	US-PGPUB; USPAT	AND	ON	2007/05/08 09:59
S54	50	("4339774"   "4651228"   "4654721"   "4733230"   "4956638").PN. OR ("5031050").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/08 10:06



## EAST Search History

S55	42	"5742703"	<p>"5742703".URPN.</p> <p>("4437122"   "4544264"   "4841375"   "4847641"   "4996603"   "5001576"   "5005139"   "5072291"   "5101438"   "5134495"   "5138339"   "5150311"   "5153925"   "5206741"   "5270836"   "5282057"   "5301037"   "5359423"   "5485289").PN. OR ("5742703").URPN.</p> <p>volcano near4 filter</p> <p>"358".clas. and volcano</p> <p>(dither or threshold) near2 (matrix or array or pattern) with FM</p> <p>"6335989".pn.</p> <p>"4814886".pn.</p> <p>"6172773".pn.</p> <p>EP0293214</p> <p>EP00293214</p> <p>EP000293214</p> <p>EP "0293214"</p> <p>EP near "0293214"</p>	US-PGPUB; USPAT	AND	ON	2007/05/11 15:55
S56	0	"5742703.pn"		US-PGPUB; USPAT	AND	ON	2007/05/11 15:55
S57	1	"5742703".pn.		US-PGPUB; USPAT	AND	ON	2007/05/11 15:55
S58	35	("5742703").URPN.		USPAT	AND	ON	2007/05/11 16:04
S59	54	("4437122"   "4544264"   "4841375"   "4847641"   "4996603"   "5001576"   "5005139"   "5072291"   "5101438"   "5134495"   "5138339"   "5150311"   "5153925"   "5206741"   "5270836"   "5282057"   "5301037"   "5359423"   "5485289").PN. OR ("5742703").URPN.		US-PGPUB; USPAT; USOCR	AND	ON	2007/05/11 16:04
S60	2	volcano near4 filter		US-PGPUB; USPAT	AND	ON	2007/05/11 17:34
S61	3	"358".clas. and volcano		US-PGPUB; USPAT	AND	ON	2007/05/11 17:34
S62	46	(dither or threshold) near2 (matrix or array or pattern) with FM		US-PGPUB; USPAT	AND	ON	2007/05/14 15:57
S63	1	"6335989".pn.		USPAT	OR	OFF	2007/05/16 11:20
S64	1	"4814886".pn.		USPAT	OR	OFF	2007/05/16 11:22
S65	1	"6172773".pn.		USPAT	OR	OFF	2007/05/16 11:23
S66	0	EP0293214		USPAT; EPO	OR	OFF	2007/05/16 11:24
S67	0	EP00293214		USPAT; EPO	OR	OFF	2007/05/16 11:24
S68	0	EP000293214		USPAT; EPO	OR	OFF	2007/05/16 11:25
S69	3392672	EP "0293214"		USPAT; EPO	OR	OFF	2007/05/16 11:25
S70	0	EP near "0293214"		USPAT; EPO	OR	OFF	2007/05/16 11:25

## EAST Search History

S71	10	"0293214"	USPAT; EPO	OR	OFF	2007/05/16 11:25
S72	36	ulichney-r\$.in.	USPAT; EPO	OR	OFF	2007/05/16 11:40
S73	1	"5317418".pn.	USPAT; EPO	OR	OFF	2007/05/16 11:46
S74	4	dither near (grid or matrix) with (sub adj pixel or sub?pixel or sub\$1pixel)	USPAT; EPO	OR	OFF	2007/05/16 11:47
S75	6	dither near (grid or matrix) with (sub adj pixel or sub?pixel or sub\$1pixel)	US-PGPUB; USPAT	OR	OFF	2007/05/16 11:47